

UPDATE ON BLM's GEOTHERMAL PROGRAM – LEASING/DEVELOPMENT

Colorado Geothermal Working Group Meeting

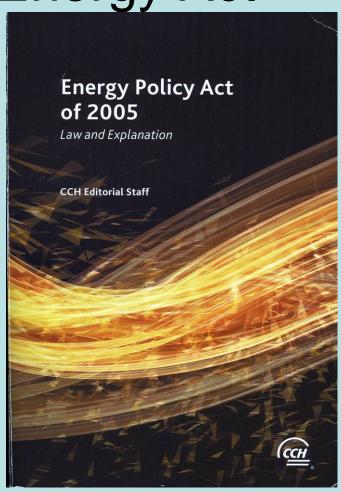
Colorado School of Mines

Tuesday April 8, 2008

U.S. Department of the Interior
Bureau of Land Management
Kermit Witherbee, Washington, DC

Geothermal Tasks – Energy Act

- Published Final Geothermal Rule (Sec 221-236), May 2, 2007
- Coordination of Leasing & Permitting (Sec 225)-BLM/FS MOU, 4/14/2006
- Preparing Programmatic Geothermal EIS (Sec 225)-BLM/FS, DOE Cooperator, DEIS (2/2008)
- Revenue Distribution: 50% paid to State, 25% paid to County (Sec 224), and 25% to DOI for 5 years to implement EPAct (Sec. 234)



Geothermal Tasks – Energy Act

- Held Utah and Idaho Competitive Sale (Sec 222), June 20, 2007
 - UT, 3 parcels, 6,018ac, \$3.7m
 - ID, 5 parcels, 8,904 ac,\$5.7m
- Held California and Nevada Sale (Sec 222), August 14, 2007
 - CA, 6 parcels, 2711 ac,\$m
 - NV, 43 parcels,122,849 ac, \$11.4m





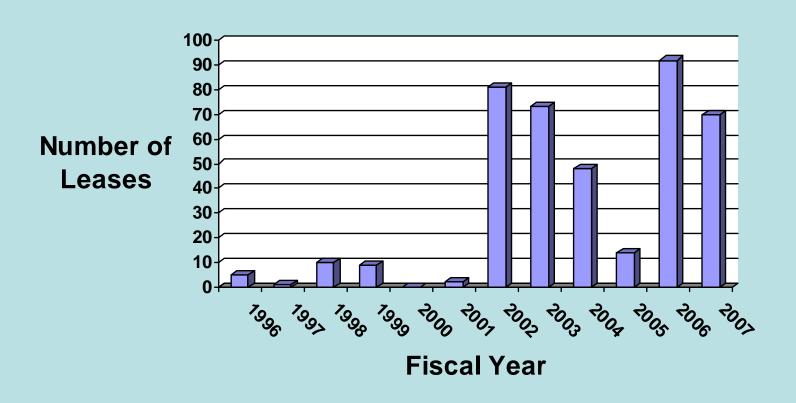
Statistics Geothermal Energy

- 17% of U.S. renewable electricity generation
- 0.4% total U.S. electricity supply
- 2,875 MW total installed capacity in U.S.
- 1,275 MW capacity from federal leases

Geothermal Leases Total 480 leases, 713,566 acres

- NV 324 leases, 533,810 acres
- CA 73 leases, 93,091 acres
- OR 60 leases, 56,576 acres
- UT 11 leases 13,796 acres
- ID 7 leases, 9,628 acres
- NM 4 leases, 4,581 acres
- AZ 1 lease, 2,084 acres

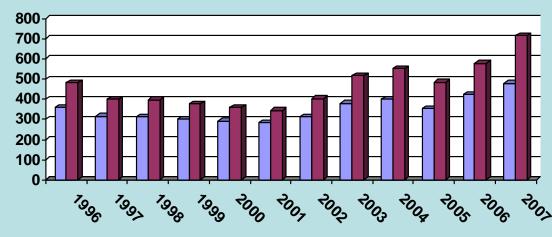
Geothermal Leases Issued FY 1996-2007



Geothermal Leases in Effect FY 1996-2007

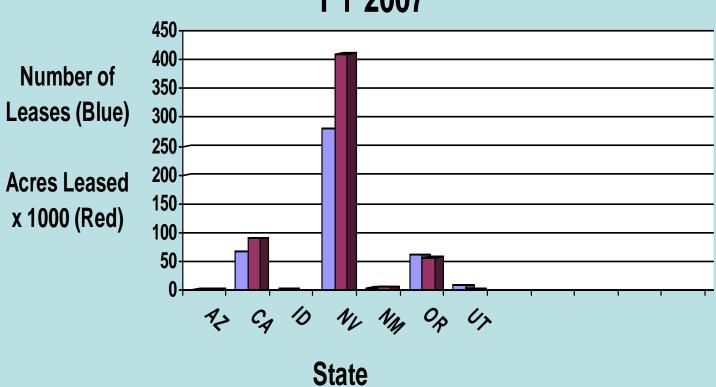


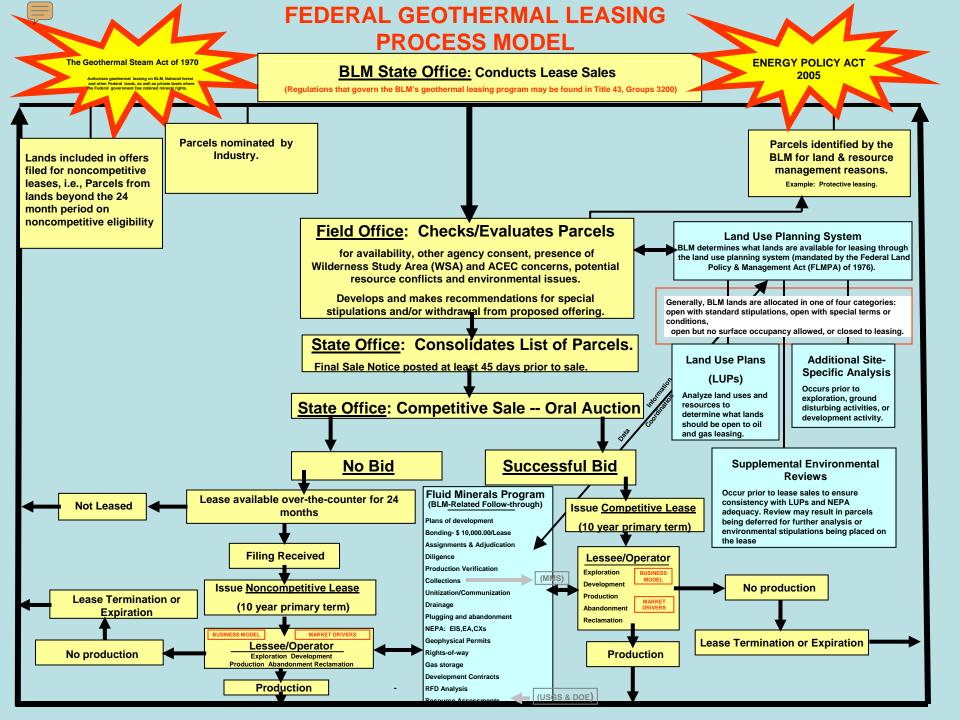
Acres Leased x 1000 (Red)



Fiscal Year

Geothermal Leases in Effect FY 2007





Programmatic Geothermal EIS

- 1. Programmatically assess the direct, indirect, and cumulative effects of leasing, exploration and development of geothermal resources on high priority areas (critical locations) on BLM- and FS-administered lands in order to expedite leasing. Additional environmental documentation would be required prior to actual exploration drilling and development.
- 2. Amend BLM and FS Resource Management Plans/Land Use Plans for geothermal leasing, based on PEIS analysis.
- 3. Provide analysis so site-specific leasing decisions can be made for the pending backlog geothermal lease applications received by the BLM and FS prior to January 1, 2005.

Programmatic Geothermal EIS

The Bureau of Land Management (BLM) and the USDA Forest Service (FS) are preparing a joint Programmatic Environmental Impact Statement (PEIS) to analyze and expedite the leasing of BLM-and FS-administered lands with high potential for renewable geothermal resources in 11 western states and Alaska.

Programmatic Geothermal EIS

Schedule

May 2008 -- Draft PGEIS

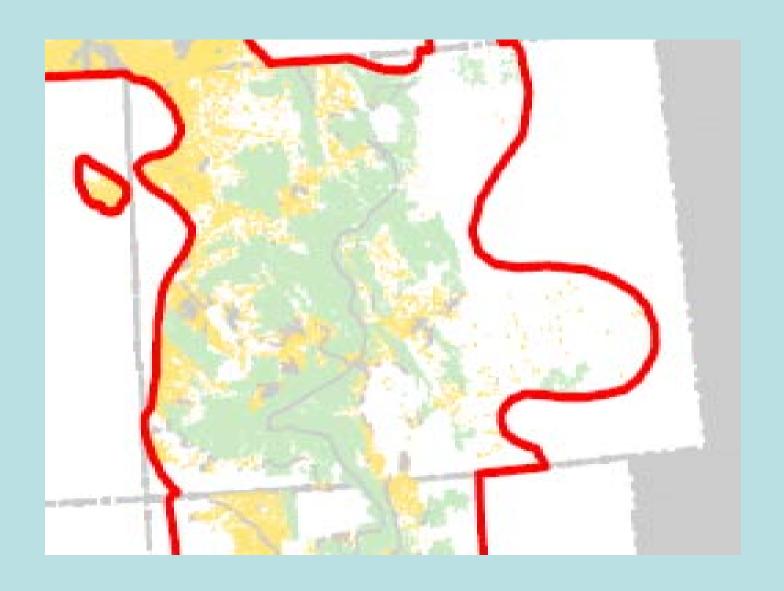
June 2008 – Public Meetings

December – Final PGEIS

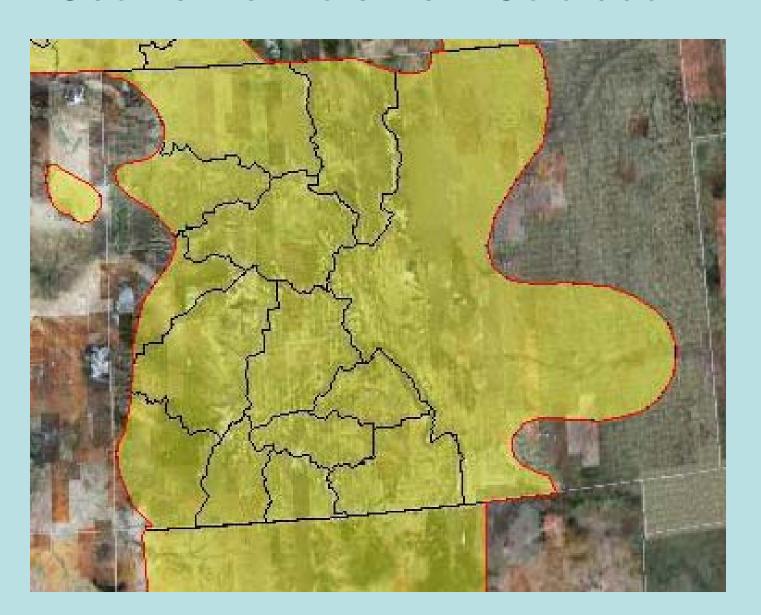
Estimate Future Geothermal Electrical Generation Development

State	Estimated Commercial Development (2015)	Estimated Commercial Development (2025)
California	2375	4703
Nevada	1473	2880
Idaho	855	1670
Oregon	380	1250
Utah	230	620
Washington	50	600
New Mexico	80	170
Alaska	20	150
Arizona	20	50
Colorado	20	50
Montana	n/a	n/a
Wyoming	0	0
Source: WGA 2006, BLM and DOE 2003		

Federal Lands - Colorado



Geothermal Potential - Colorado



Programmatic Geothermal EIS

Available Land

Nomination of Lands
Competitive Leasing
Noncompetitive Leasing
Direct Use Leasing
Lease Issuance

Available Land

- Lands administered by DOI
- Lands administered by the Department of Agriculture w/ its concurrence
- Lands conveyed to US where geothermal resources were reserved to US
- Lands subject to Sec. 24 of Federal Power Act, with DOE concurrence

Nomination of Lands

- Nomination Form 3203-10
 - One nomination per form
- Maximum Nomination Size
 - 5,120 Acres (unless includes irregular subdivision)
- Description of Lands Nominated
 - Public land system (T,R,S, & aliquot part)
 - Fractional interest lands (US mineral ownership as %)
- Nomination Filing Fee (43 CFR 3000.12)
 - \$100 per nomination + \$0.10 per acre
- Block Nominations
 - Parcels may be sold as a block that could be produced as 1 unit

Competitive Leasing

Lands Offered
Nominated Lands
BLM Motion

Lease Sale Notice

The lease sale format and procedures

The time, date and place of the lease sale

Stipulations applicable to each parcel

Published 45 days prior to sale (Post the Notice in the BLM office having jurisdiction over the lands to be offered)

May be held in conjunction with oil & gas lease sale

Competitive Leasing (Cont'd)

Lease Sale Format

Oral Bidding (Competitive bidding)

Offered to Highest Qualified Bidder

Lease Issuance

Payments:

Close of Official Business hour on day of sale Competitive Lease Application Fee (43 CFR 3000.1)

1st year's rental

20% of Bonus bid

Within 15 calendar days after the last day of the sale: Balance of bonus bid

Noncompetitive Leasing

(Other than Direct Use Leasing)

- Lands Not Sold at Competitive Lease Sale
 - Available for period of two years (2 year window)
 - Beginning from first business day following sale
 - Applications only accepted for parcels as configured in
 - Notice of Competitive Geothermal Lease Sale for 30 days after the sale (parcel integrity)
 - Applications for a specific parcel received on first business day after the sale considered as simultaneously filed
 - One application per parcel, BLM will randomly select an application among those accepted to receive the lease
 - After 30 day (parcel integrity) period applicant may file for any available lands

Noncompetitive Leasing (Other than Direct Use Leasing)

Non-Competitive Leasing to a Mining Claimant

Submit Form 3200-24a, Offer to Lease and Lease for Geothermal Resources, two copies (one with original signature)

Provide documentation:

Mining claim ownership

Current approved plan of operations for the mine

Direct Use Leasing

Secretary of Interior may identify lands exclusively for direct use

File noncompetitive lease application (Form 3200-24a)

Acreage no larger than reasonably necessary to accommodate intended use

BLM posts application for 90 days

If competitive interest or nomination is received for competitive leasing, lands will be offered for competitive sale

State, Tribal or Local Governments-Use resource without sale & for public purposes other then commercial generation of electricity – nominal fee for use

Lease Issuance

Applicant must:

- Accept all lease terms
- Make all required payments
- Sign joinder or waiver (if applicable)
- Comply with maximum limit on acreage holdings
 - 51,200 acres in any one state
 - Acreage included in an approved unit agreement, drilling contract, or development contract is not counted

BLM Must:

- Determine land is available
- Determine that lease will not have a significant adverse impact on any significant thermal feature in specific units of the National Park Service

Lease issued:

Day BLM signs lease, goes into effect first day of following month.

BLM Web Sites

Programmatic Geothermal EIS (regulations, maps, etc.)

 http://www.blm.gov/wo/st/en/prog/energy/geothermal/geothermal_na tionwide.html

LR-2000

http://www.blm.gov/lr2000/index.htm

Geocommunicator

http://www.geocommunicator.gov/GeoComm/index.shtm